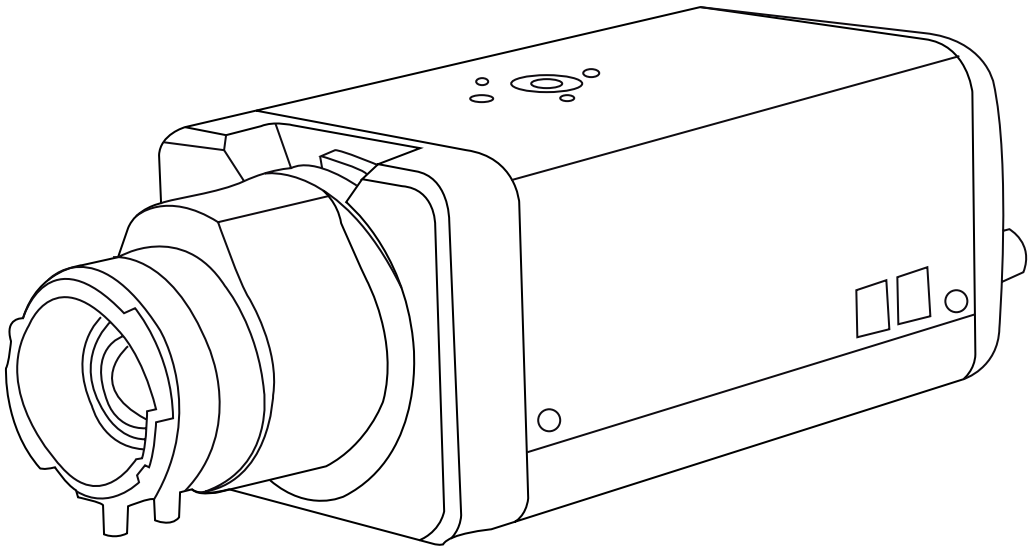
• **IP Modular camera 1,3 MP**
4 306 60



USER MANUAL

LE04761AB

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1 Accessories

Name	Qty
IP Camera	1
C/CS adapter	1
Quick Start Guide	1
CD	1
12V power adapter	1

2 General Introduction

2.1 Features

User Management	Different user rights for each group, one user belongs to one group. The user right can not exceed the group right.
Data Transmission	Support cable network data transmission via Ethernet.
Storage Function	Support central server backup function in accordance with configuration and setup in alarm or schedule setting. Support record via Web and the recorded file are stored in the client-end PC. Support local SD card hot swap.
Alarm Function	Real-time respond to local alarm input and video detection as user pre-defined activation setup and exert audio prompt(allow user to pre-record audio file). Realize real-time video detect such as motion detect, camera masking and video loss.
Network Monitor	Supports one-channel audio/video data transmit to network terminal Max supports 10 connections. Adopt the following audio and video transmission protocol: HTTP, TCP, UDP, MULTICAST, RTP/RTCP and etc. Support web access, widely used in WAN.
Network Management	Configuration and management via Ethernet. Support device management via web. Support various network protocols.
Peripheral Equipment	Support peripheral equipment connection via the RS232 port. Support serial port (RS232/RS485) transparent data transmission.
Power	External power adapter. Support DC 12V/AC 24V power supply.
PoE	Support Power over Ethernet (PoE). Conform to the IEEE802.3af standard. Connect the device to the switch or the router that supports PoE function to realize the network power supply. To guarantee proper performance, make sure the power source can supply at least 10W power.
Assistant Function	Day/Night mode auto switch (ICR switch.) Support system resource information and running status real-time display. Support log function.

2.2 Specifications

Please refer to the following sheet for IPC performance specification.

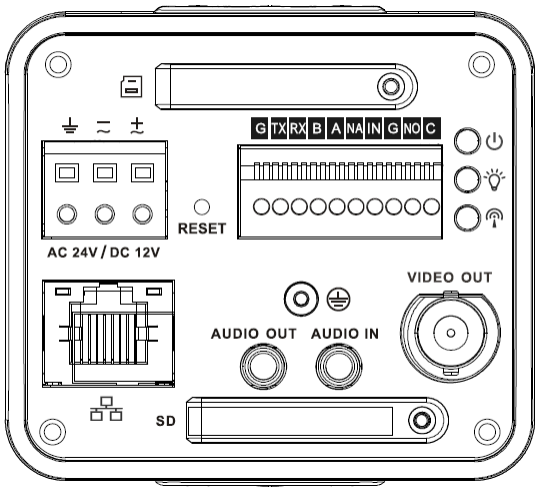
Parameter \ Model		Ref. 4 360 61
System	Main Processor	TI Da vinci high performance DSP
	OS	Embedded LINUX
	System resources	Support real-time network, local record, and remote operation at the same time.
	User Interface	Remote operation interface such as WEB or VMS.
	System status	SD card status, bit stream statistics, log ,software version ,online user
Video parameter	Image Sensor	APTINA CMOS 1,3 MP
	Pixel	1280 (H) *960 (V)
	Day/Night Mode	Yes
	Auto iris	Yes
	Gain Control	Fixed/Auto
	White Balance	Manual/Auto
	Electronic Shutter	Manual/Auto (It ranges from 1/50 to 1/10000)
	Video Compression Standard	H.264
	Video Frame Rate	PAL: Main stream (1280*960@15fps) extra stream,(D1@12fps) Main stream (1280*720@25fps) extra stream (D1@12fps)
	Video Bit Rate	160k~8Mbps. Support customized setup.
	Video Flip	Does not support mirror. Support flip function.
	Video Quality	1~6 level (The 6th level has the highest quality)
	Snapshot	Max 1f/s snapshot. File extension is JPEG
	Privacy Mask	Each channel supports max 4 privacy zones
	Video Setup	Support parameter setup such as brightness, contrast, etc.
	Video information	Channel title, time title, video loss, motion detect, privacy mask.
	Lens Interface	C/CS (adapter provided).
Audio	Audio Input	3,5 mm Jack in.
	Audio Output	3,5 mm Jack out.
	Audio Bit Rate	8 kbps.
	Audio Compression Standard	G711a/G711u/PCM.
Video	Motion Detect	396 (18*22) detection zones: sensitivity level ranges from 1 to 6 (the 6th level has the highest sensitivity). Activation event, alarm device, audio/video storage, image snapshot, log, email SMTP function and etc.
	Video Loss	Activation event, alarm device, audio/video storage, image snapshot, log, email SMTP function and etc.
	Privacy mask	Sensitivity level ranges from 1 to 6. Each sensitivity level is the percentage of the privacy mask zone. Activation event, alarm device, audio/video storage, image snapshot, log, email SMTP function and etc.

Parameter / Model		Ref. 4 360 61
Alarm Input		2-channel input 1-channel output (NO-NC).
Record and Backup	Record Priority	Manual>Alarm >Motion detect>Schedule.
	Record Search Mode	Support local data search via time/date, event type (alarm, motion detect, external alarm) and file type (record/image).
	Local Storage	Support local SD card hot swap.
	Storage Management	Support display local storage status.
Network	Network Protocol	HTTP, TCP/IP, ICMP, RTSP, RTP, UDP, RTCP, SMTP, FTP, DHCP, DNS, DDNS, PPPoE.
	Remote Operation	Monitor, playback, system setup, file download, log information, maintenance , upgrade, etc.
AUX Interface	Video Output	Analog video output BNC port.
	Network Interface	10/100 Base-T Ethernet.
General Parameter	Power	Support AC24V/DC12V power. Support PoE.
	Power Consumption	<10W.
	Working Temperature	-10 ~ +55°C.
	Working Humidify	10% ~ 90%.
	Dimensions	70 * 63.2 * 149.5 mm.
	Weight	650 g.

3 Framework

3.1 Rear Panel

The rear panel is shown as below.



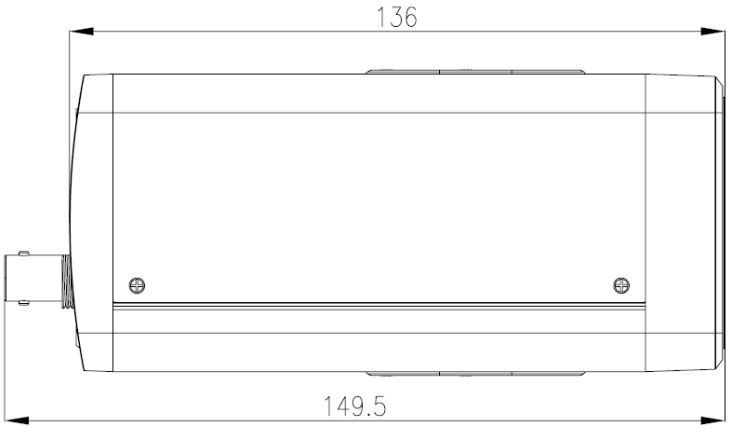
Refer to the following sheet for detailed information.

Interface Name		Connector	Function
VIDEO OUT	Video output port	BNC	Output analog video signal.
AC 24V/ DC 12V	Power port		Power port. Input 12V DC or 24V AC.
STATUS Indicatin Light	Red light		**System boot up:** red light is on **Safe mode:** red light flashes **System upgrades:** red light flashes **System resets:** red light flashes.
	Green light		**Normal working status:** green light is on. **Display record status:** if recording green light flashes.
	Yellow light		**Wireless data transmission:** yellow light flashes. **Detect the wireless device:** yellow light is on.
	3G/WIFI port		Current series does not support this function right now.
IN	Alarm input port	I/O port	Alarm input port 1. Receive the signal from external alarm device.
NO C	1-ch alarm output		Alarm output port. Send alarm signal to alarm device. NO: Normal open alarm output port. C: Alarm output common port.
G	GND		Alarm input ground port.
A	RS485 port		RS485- port.
B	RS485 port		RS485+port.

Interface Name		Connector	Function
RX	RS232 port		RS232 RX port (receive).
TX			RS232 TX port (send).
G	GND		RS232 Ground port.
NA C	D/N Switch Port		Connect this port to manage ICR switch external input.
RESET	RESET button		Restore factory default setup. When system is running normally (power indication light is red), press the RESET button for at least 5 s, system will restore factory default setup.
AUDIO OUT	Audio output port	Audio output 3.5mm Jack port.	Output audio port.
AUDIO IN	Audio input port	Audio input 3.5mm Jack port.	Input audio port.
LAN	Network port	Ethernet port	Connect standard Ethernet cable. Support PoE function.
SD	SD card port		Connect SD card. **Note:** **When you install the SD card:** make sure current card is not in write mode then you can install it to the camera. **When you remove the SD card**: make sure current card is not in write mode. Otherwise it may result in data loss or card damage. Before hot swap, please stop record operation.
⏚	GND		Make sure the device is securely connected to earth.

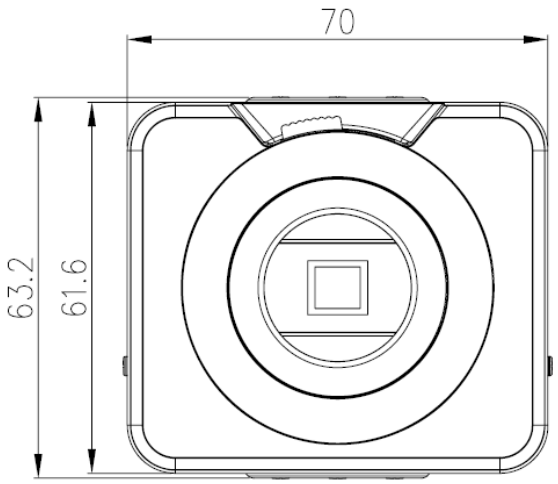
3.2 Side Panel

The side panel is shown as below.



3.3 Front panel

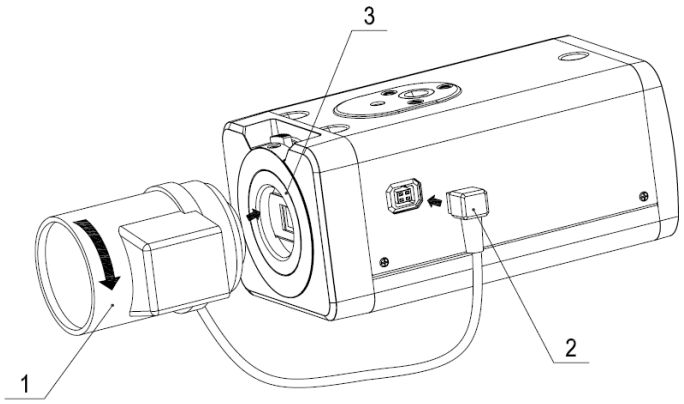
The front panel is shown as below.



4 Installation

4.1 Install Auto iris Lens

Follow the steps listed below for auto iris lens installation.



1- Remove the sensor protection cap of the device, and then line up the lens to the proper installation position. Turn clockwise until the lens is fixed firmly.
2- Insert the lens cable socket to the auto lens connector in the side panel.
3- When it is ∞, you can turn the adjust screw to adjust the focus circle to adjust the focal distance.

4.2 Install Manual Lens

Install C type lens

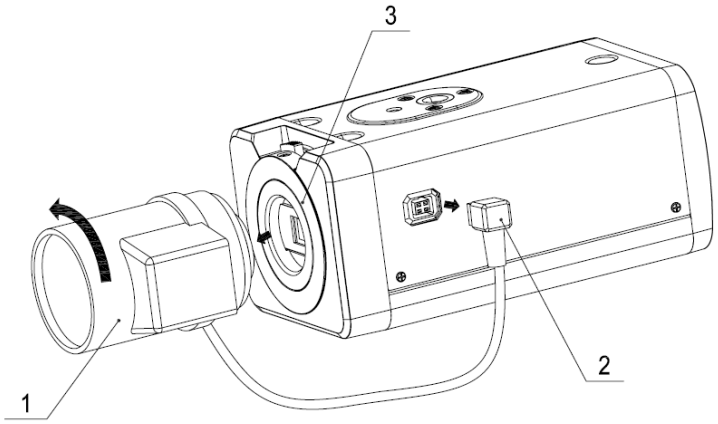
- Remove the sensor protection cap; use the cross-head screwdriver to remove the screw near the focal circle.
- Turn counter clockwise to move the focal circle out for several millimeters.
- Focus manually.
- Use the cross-head screwdriver to fix the screw back firmly. Secure the focal circle.
- Install the C/CS adapter to the camera.
- Line up lens to the proper installation. Turn clockwise to fix the lens firmly.

Install CS type lens

- Remove the sensor protection cap; use the cross-head screwdriver to remove the screw near the focal circle. Turn counter clockwise to move the focal circle to the end and now you can focus manually.
- Use the cross-head screwdriver to fix the screw back firmly. Secure the focal circle.
- Line up lens to the proper installation. Turn clockwise to fix the lens firmly.

4.3 Remove Lens

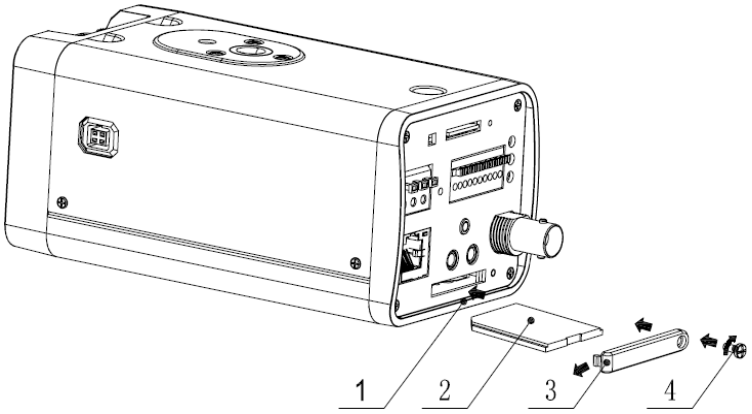
Follow the steps listed below to remove lens.



1- Turn the lens counter clockwise and then remove it from the camera.
2- Unplug the auto lens cable socket from the auto lens connector.
3- If there is no lens, put the sensor protection cap back to protect the sensor.

4.4 SD Card Installation

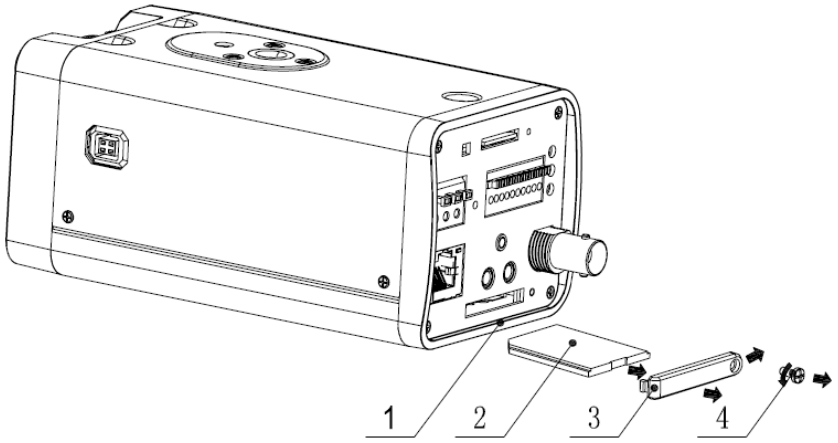
Follow the steps listed below to install SD card.



1- Use the screwdriver to loosen the SD card protection screw in the rear panel, and remove the SD card protection cap from the camera.
2- Install the SD card to the camera according to the proper installation position.
3- Put the SD card protection cap back.
4- Use the screwdriver to fix the SD card protection cap screw firmly to secure the SD card protection cap in the camera.

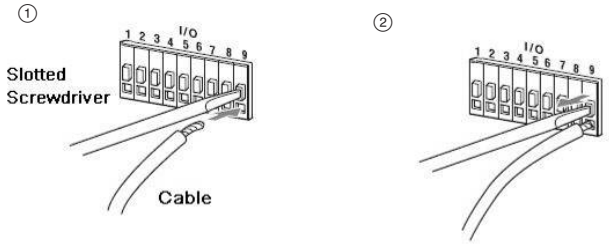
4.5 Remove SD card

Follow the steps listed below to remove SD card.



1- Use the screwdriver to loosen the screw of SD card protection cap in the rear panel. Remove the cap from the camera.
2- Follow the SD card direction to remove the SD card.
3- Insert the SD card protection cap.
4- Use the screwdriver to fix the screw to secure the protection cap.

4.6 I/O Port



① Install Cable

Follow the steps listed below to install the cable.
- Use the small slotted screwdriver to press the corresponding button of cable groove.
- Insert the cable into the groove and then release the screwdriver.

② Remove Cable

Follow the steps listed below to remove the cable.
- Use the small slotted screwdriver to press the corresponding button of cable groove.
- Remove the cable out of the groove and then release the screwdriver.

5 Factory Default Setup

Please refer to the following sheet for factory default setup information.

Function configuration type		Item Name		Default setup
General Setup		Date format		Y-M-D
		DST		Disable by default
		Date separator		' _ '
		Time format		24H
		Language		English
		When HDD is full		Overwrite
		Record duration		8 min
		Device No.		8
		Video type		PAL
Encode Setup	Main stream	Channel		Channel01
		Compression		H.264 Enable audio and video
		General bit stream		Main stream
		Resolution		720P
		Frame rate		25
		Bit stream control		VBR
		Bit stream value		8192
		I frame interval control		50
	Extra stream	Extension stream		Main stream
		Audio/Video enable		Disable audio and video
		Resolution		D1
		Frame rate		25
		Bit stream control		CBR
		Bit stream value		2048
		I frame interval control		50
		Image color		Brightness: 50 Contrast: 50 Saturation: 50 Hue: 50
		Watermark		Enable Stream type: All Type: Character Character: Digital CCTV
		Privacy Mask		Never
		Time title		Enable. OSD transparent (read-only):0
		Channel title		Enable. OSD transparent (read-only):0
Schedule setup		Channel		Ch01
		Pre-record		1 second
		Time Setup	Start time	0:00:00
			End-time	23:59:59
			Record	Period 1 : Enable motion detection/ alarm

Function configuration type	Item Name		Default setup
Record setup	Time Setup	Snapshot	Period 1 : Enable motion detection/ alarm
		Week	Sunday
COM Setup	Option		COM01
	Function		Console
	Data bit		8
	Stop bit		1
	Baud rate		115200
	Parity		None
Network setup	Ethernet		Port 01
	DHCP		Disable
	IP address		192.168.1.108
	Subnet mask		255.255.0.0
	Gateway		192.168.0.1
	Device name		Device factory default name
	TCP port		37777
	HTTP port		80
	UDP port		37778
	Max connection		4
	Network transmission QoS		Disable
	Remote host		Multiple broadcast group
	IP address		239.255.42.42
	Port		36666
	Email setup		Disable
	Multiple DDNs		Disable
	NAS setup		Disable
	NTP setup		Disable
	Alarm server		Disable
Alarm setup	Event type		Local alarm
	Alarm input		Input 01, disable
	Type		Normal open
	Period Setup		Period: Start time 0:00:00 End time:23:59:59 Period 1:enable Week: Sunday
	Anti-dither		0 second
	Alarm output		Disable
	Alarm latch		10 seconds
	Record channel		1, enable
	Record latch		10 seconds
	Send email		Enable
	PTZ activation		Disable Event type: never Address: 0
	Capture		Disable

Function configuration type	Item Name		Default setup
Video detection	Event type		Motion detection
	Channel		Ch01, Disable
	Sensitivity		3
	Time period setup		Period: Start time 0:00:00 End time:23:59:59 Period 1:enable Week: Sunday
	Anti-dither		5 seconds
	Alarm output		Disable
	Alarm latch		10 seconds
	Record channel		Disable
	Record latch		10 seconds
	Send email		Disable
	PTZ activation		Event type: Never Address: 0 Disable
	Capture		Disable
PTZ Setup	Channel		Ch01
	Protocol		DH-SD1
	Address		1
	Baud rate		9600
	Data bit		8
	Stop bit		1
	Parity		None
Default and Backup	All		Disable
	General		Disable
	Encode		Disable
	Schedule		Disable
	RS232		Disable
	Network		Disable
	Alarm		Disable
	Video detection		Disable
	Maintain		Disable
	Camera		Disable
	Channel No.		Disable
Advanced	Abnormity	Even Type	No disk, Disable
		Alarm Output	Disable
		Alarm Latch	10 seconds
		Send email	Disable
	User account		admin/admin (reusable) 888888/888888(reusable) 666666/666666(reusable) default
	Snapshot	Channel	Ch01

Function configuration type	Item Name		Default setup
Advanced	Snapshot	Snapshot mode	Snapshot_Timing
		Frame rate	1f/s
		Resolution	1080P
		Quality	80%
	Auto maintain	Auto reboot	2.00 each day
		Auto delete old files	Never
Camera config	Channel		1
	Exposure Mode		Auto
	Night Vision		Auto
	Backlight Compensation		N/A
	Auto Iris		On
	Scene Mode		Auto
	Signal Type		Inside
	Mirror		N/A
	Rotate		Support
Auto Registration	SN		1
	IP		0.0.0.0
	Port		7000
DNS Setup	DNS		8.8.8.8
	Alternative DNS		8.8.8.8

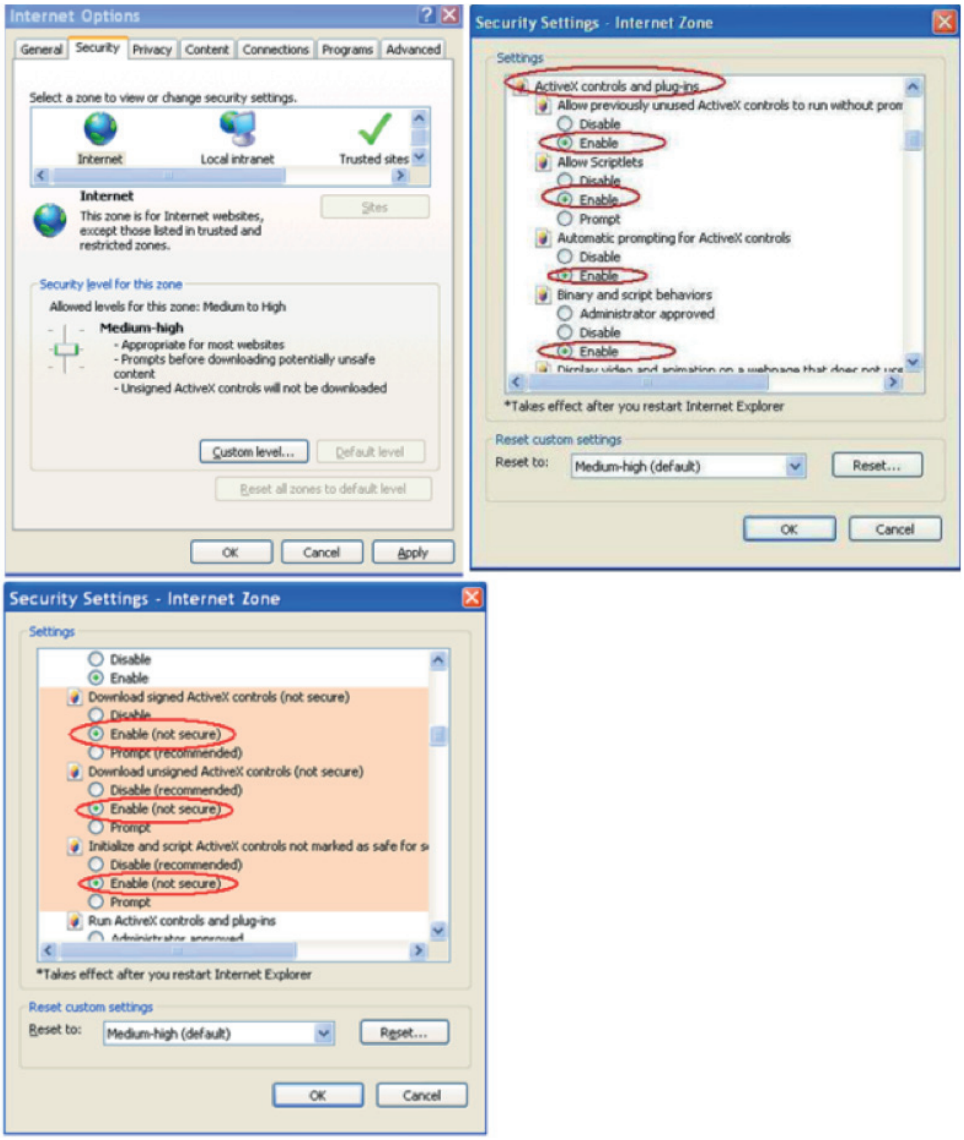
6 Connecting to a device and opening the web application

6.1 IE options configuration for config tool and and IE

This device supports web access and management via PC.

System pops up warning information to ask you whether install control "webrec.cab" or not. Click "OK" button, system can automatically install the control.

If you can't download the ActiveX file, you can lower the IE security level or disable anti-phishing filter. Be sure you are logged with administrator rights in your Windows session.



6.1.1 Connection with the Search Tool

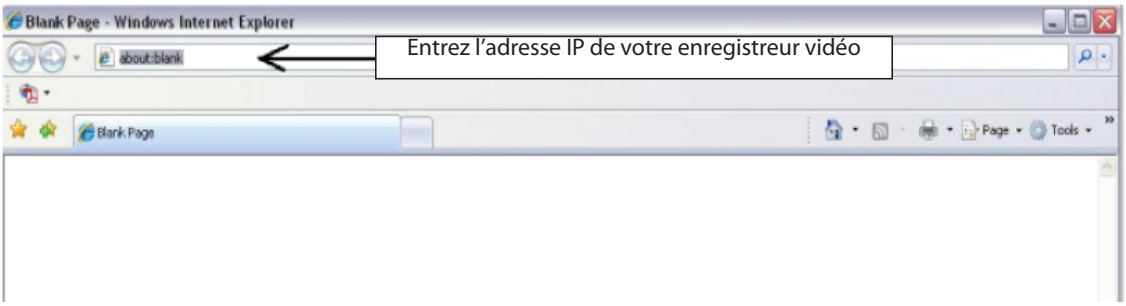
Refer to chapter "5.2.1 Connecting to the device's web interface"

6.1.2 Connection with Internet Explorer

IP camera factory default setup: :

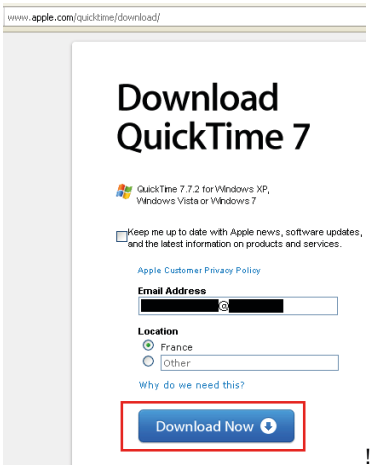
- IP address: 192.168.1.108
- User name: admin
- Password: admin

Open Internet Explorer and input IP camera address in the address bar.
For example, if your camera IP is 192.168.1.108, input http://192.168.1.108 in IE address bar.



6.2 Connection with Mozilla Firefox or Google Chrome

Go to Apple web site, download and install QuickTIme (www.apple.com/quicktime/download)
Then open Firefox or Chrome and input the IP DVR address in the browser URL.


www.apple.com/quicktime/download/
Download QuickTime 7
QuickTime 7.7.2 for Windows XP, Windows Vista or Windows 7
Keep me up to date with Apple news, software updates, and the latest information on products and services.
Apple Customer Privacy Policy
Email Address
Location
France
Other
Why do we need this?
Download Now

!

Remarque : Avec ces navigateurs, l'apparence de l'interface peut être différente et certains boutons peuvent ne pas apparaître

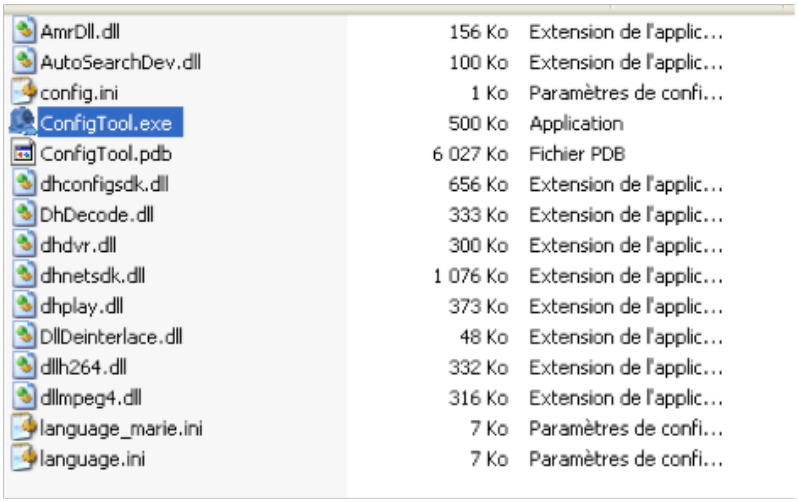
7 Quick Configuration Tool

7.1 Introduction

Quick configuration tool is used to search for current IP address, modify IP address. It can also be used to perform a software upgrade or to modify settings. This tool only applies to the IP addresses in the same network segment. Before using the Quick Configuration Tool, please check that this software is in updated version.

7.2 Searching/Connecting

Select and double click the "ConfigTool.exe"' in the application directory.


AmrDll.dll 156 Ko Extension de l'applic...
AutoSearchDev.dll 100 Ko Extension de l'applic...
config.ini 1 Ko Paramètres de confi...
ConfigTool.exe 500 Ko Application
ConfigTool.pdb 6 027 Ko Fichier PDB
dhconfigsdk.dll 656 Ko Extension de l'applic...
DhDecode.dll 333 Ko Extension de l'applic...
dhdvr.dll 300 Ko Extension de l'applic...
dhnetsdk.dll 1 076 Ko Extension de l'applic...
dhplay.dll 373 Ko Extension de l'applic...
DllDeinterlace.dll 48 Ko Extension de l'applic...
dllh264.dll 332 Ko Extension de l'applic...
dllmpeg4.dll 316 Ko Extension de l'applic...
language_marie.ini 7 Ko Paramètres de confi...
language.ini 7 Ko Paramètres de confi...

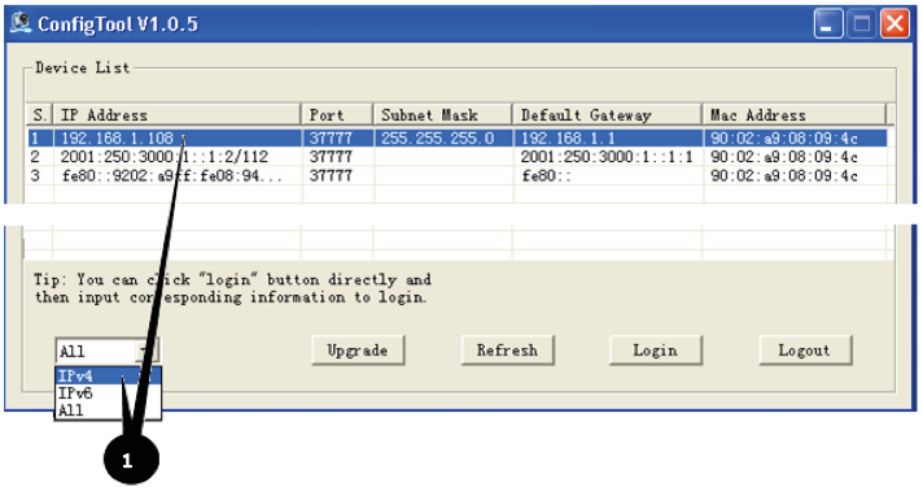
The version of Config tool should be at least 1.0.5.

7.2.1 Connecting to the device's web interface

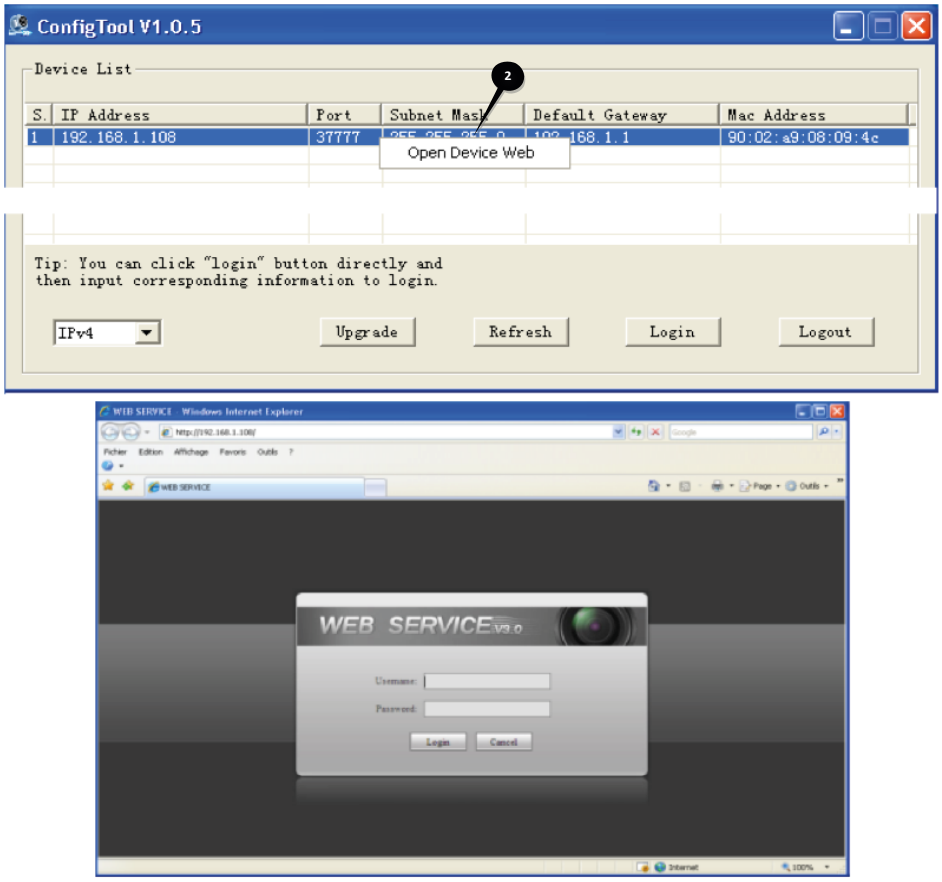
To find connected devices in the same segment network, click the "refresh" button. The tool will search for the connected devices and display the device IPv4 and IPv6 in the form list.

In the device list interface, you can view device IP addresses (IPv4 and IPv6), port number, subnet mask, default gateway and MAC address.

1 - Select IPv4 address, the IPv6 addresses disappear and right click on the highlighted line.



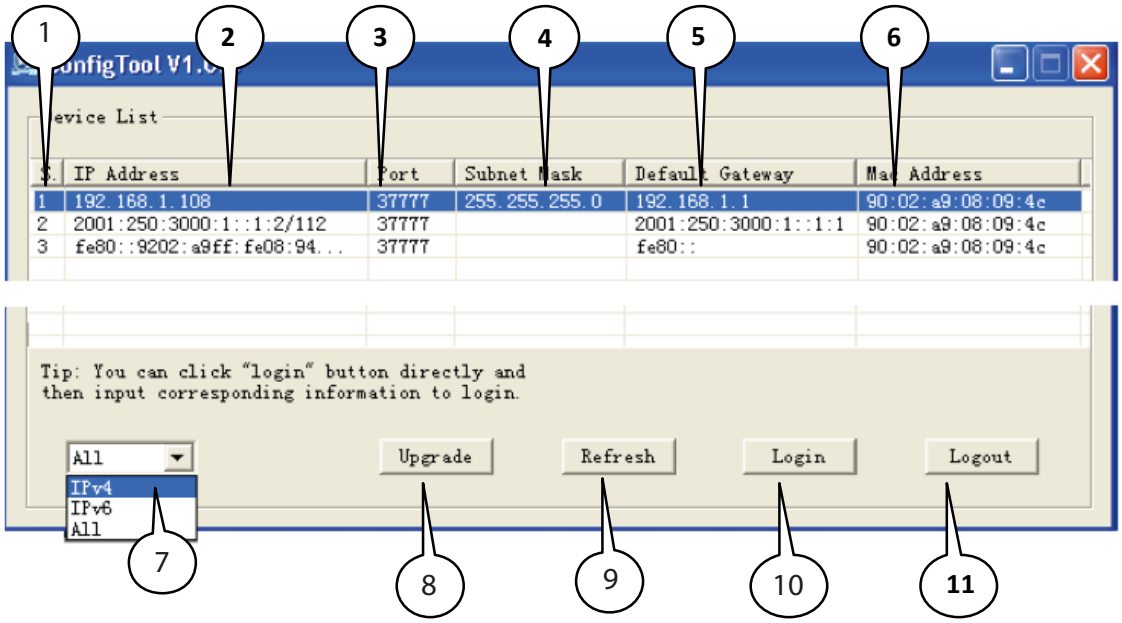
2- Select “Open Device Web” item to go to the web interface:



If you can’t connect, ckeck you internet explorer security settings as described in chapter 4.

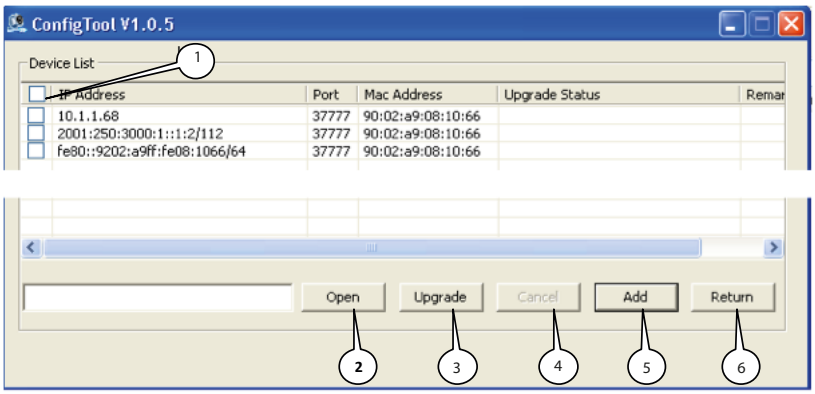
7.3 Connecting with the configuration tool (to change the IP address or upgrade the device software.

To find devices connected to the network, click the “Refresh” button. The tool will search for devices connected to the network and display them in the form of the list



N	Description
1	Number.
2	Device IP address.
3	Device TCP port.
4	Device subnet mask.
5	Device default gateway.
6	Device MAC address.
7	Select “IPv4” or “IPv6” or “All”.
8	“Upgrade” button opens the interface to upgrade the device firmware See below (8).
9	Refresh the list.
10	“Login” button opens the login interface to confirm login, password and port and configure the device. See below (10).
11	Disconnect.

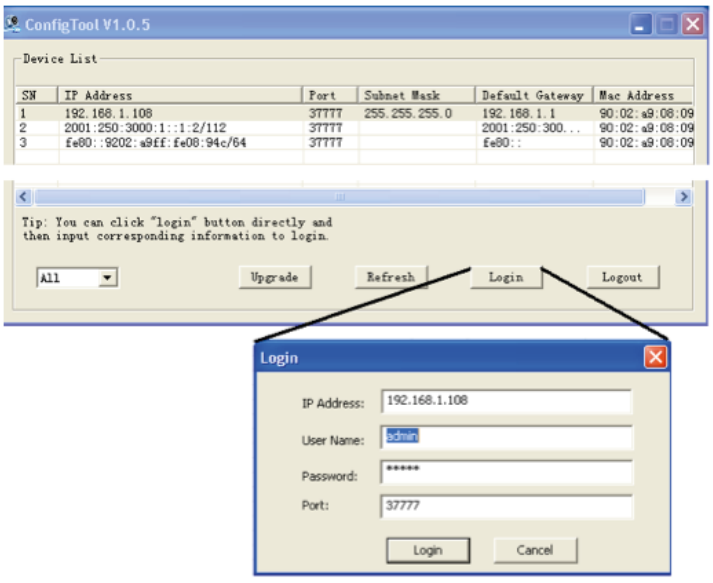
(8) "Upgrade" button opens the interface to upgrade the device firmware:



N	Description
1	Select a check box of a device or several devices with same commercial references into this list.
2	Click "Open" button and select the new firmware in the PC directory.
3	Click "Upgrade" button, the devices will be upgraded. Be careful don't cut off the network connection.
4	Click "Cancel" button to stop the upgrade.
5	"Add" button configures manually s a new device IP and port.
6	"Return" button comes back to the previous interface.

(10) "Login" button opens the login interface.

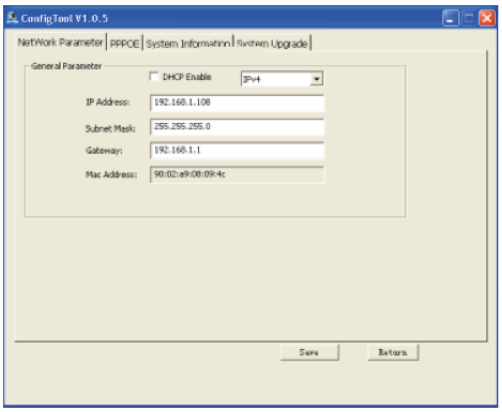
- Highlight the network information device (single click in the list)
- Click the "Login" button (or double-click the highlighted line)
- The following page opens:



Note: Here any information cannot be modified. Click the "Login" button in login popup window to open the main interface mode where the network and system settings can be changed

7.4 Main interface of the tool

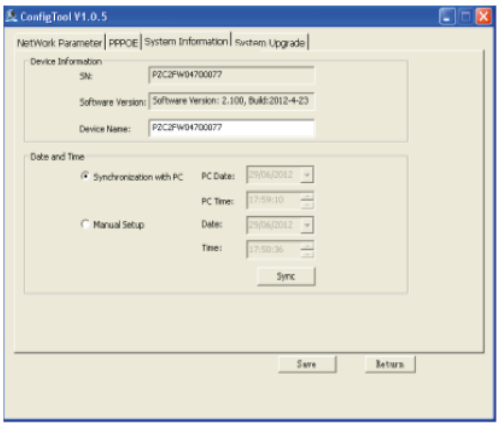
7.4.1 Network settings



Functions	Description
DHCP Enable	Enables or disables the DHCP function.
IPv4/IPv6	Select IPv4 or IPv6 in the combo list. The IP addresses can be changed.
IP Address	IP address of the device.
Subnet Mask	Subnet mask of the device.
Gateway	Gateway of the device.
Mac Address	MAC address of the device.
Save	Save the modifications.
Return	Comes back to the previous interface.

7.4.2 System Information

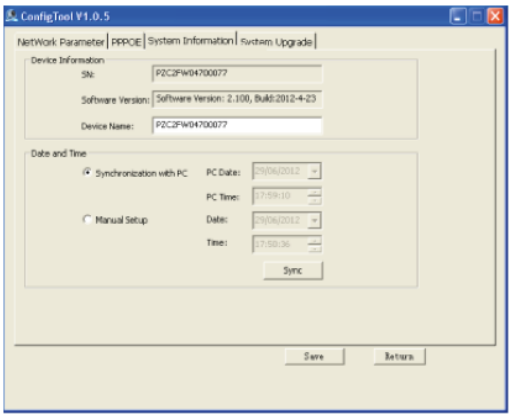
Before using the camera, please check that its software is in updated version.



Functions	Description
SN	Serial number of the device
Software Version	Software version of the device
Device Name	User name
Synchronization with PC	Synchronisation of the device's date and time the PC. Click on "Sync" to synchronise, then on "save".
PC Date	Date on the PC.
PC Time	Time on the PC.
Manal Setup	Manual setting of the device's date and time. Enter the required date and time. Click "Sync" button to synchronise and "save"
Return	Return to the previous interface.

7.4.3 System Upgrade

Before using the Camera, please install its updated software version.



Functions	Description
Upgrade File/Open	Click here to select the file to be upgraded
Current Progress/Upgrade	Click here to start the upgrading procedure
Return	Return to the search interface

Steps to upgrade the intertnal software

- Click the "Open" button.
- Select and add the *.bin internal software file (firmware)
- Click the the "Upgrade" button. Then the file is transmitted to the device and the device automatically upgrades itself.
- Then, click the "OK "button to end the procedure.

8 Resetting the camera

- Click on the «Reset» button (located inside the camera) during 10 seconds
- Wait for the auto reboot of the camera
- The camera is now in factory default settings